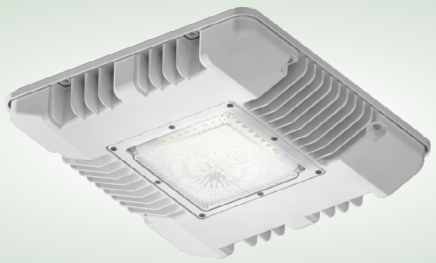
TECHLIGHT
INNOVATION IN ILLUMINATION

CSL

LED Petroleum Canopy / Soffit Light

Catalog Number	
Project	Type



SERIES	HOUSING HEIGHT	LENGTH & WIDTH
CSL	2.75”	16.39” x 16.39”

FEATURES & SPECIFICATIONS

APPLICATION — The high-performance luminaire is designed for canopy/soffit applications where long life, low maintenance, and consistent color rendering is required. Areas with limited accessibility due to fixture location or where heavy traffic makes maintenance difficult are ideal applications. Such as retail canopies, parking garages, refrigerated freezer lighting applications, and petroleum dispensing canopy applications requiring Class 1 Div. 2 Hazardous Location rating.

CONSTRUCTION — The heavy duty housing is constructed of cast aluminum with heat dissipating fins. The optical assemblies are sealed in place using a silicone gasket for weather tight protection. Fully sealed optical compartment isolates LED PCB from driver compartment. Anti-siphon power leads prevent water entry thru conductors. Wireway is epoxy potted to seal driver compartment. Modular LED system for ease of maintenance. ETL listed for wet locations (IP65). Additional IP66 rating available upon request. Each fixture comes standard with preps to accomodate advanced wireless control, management and reporting systems for outdoor lighting.

FINISH — A super durable powder coat finish. Standard colors available: Black, Bronze, Silver, White. Custom colors available upon request.

OPTICAL SYSTEM — The fixture is available with either a clear patterned, flat tempered glass lens providing a uniform and symmetrical light pattern or a molded borosilicate glass drop lens to provide a softer, wider light pattern.

ELECTRICAL SYSTEM — Available in 3000K Warm White, 4000K Neutral White, and 5000K Cool White in -80 CRI color temperatures. Aditional option of 4000K Neutral White in -90CRI . Available with 100-300V 50/60 Hz IP67 power supply. LED’s rated for over 50,000 hours at 25°C ambient temperature. 347V~480V input option available. 0-10V dimming. Built-in surge protection up to 10 kA. Built-in Active PFC Function >95%/Full load. LED Power Supply conforms to UL8750 standards and is IP67 rated.

MOUNTING — The fixture can be thru hole flush surface mounted (2-1/4” diameter deck penetration required) using the pre-set mounting holes and hardware provided with each fixture or it may be mounted via pendant. Surface Mount is suitable for use on single or dual skin canopies with minimum 22ga, 0.030” thickness. Surface mount fixture provided with gasket rear mounting surfaces and stainless steel hardware for attachment to canopy. Self-sealing screws are provided but RTV application on top canopy deck is recommended. Side conduit entry (SCE10) option is provided with a ¾”-14 NPS threaded entry and 10’ of 16/3 600V STW power cord (3/4” conduit or Seal-Tite fitting provided by others). Side conduit entry is not for through-wiring. Consult factory for 5-wire power cord if 0-10V dimming is being utilized. Pendant Mount provided with factory installed bracket and hanger type J-Box and Hub for 3/4” pipe stems. Safety chain kit available. Pendant Mount configuration is provided with box plate and hub (Pendants sold separately).

LISTINGS — ETL listed for wet locations. Meets US and Canadian safety standards. -40°C to 50°C ambient operation. RoHS Compliant. Class 1 Div 2 Hazardous Location Rating up to 50°C ambient operation. Rated for Groups A, B, C & D. Temperature Class T4A. ETL Intertek Sanitation listed conforms to NSF Std 2 for Nonfood Zone when ordered with NSF option. IP66 certified by ETL Intertek Testing for both surface and pendant mount. DLC listed, see notes for more details.

ORDERING INFORMATION

Choose the bold face options for the appropriate luminaire configuration for your application and enter on the line above each fixture attribute. Accessories may be factory installed, depending on the particular accessory chosen, but still be ordered as a separate line item.

EXAMPLE:
CSL S N90 DL 82 1 WH

CSL							
SERIES	**MOUNT**	**COLOR TEMP**	**OPTICS**	**WATTAGE**	**VOLTAGE**	**FINISH**	**OPTIONS**
	S = Surface Mount **P** = Pendant Mount[1]	**W** = Warm White (3000K) 80 CR (No DLC) **N** = Neutral White (4000K) 80 CRI **C** = Cool White (5000K) 80 CRI **N90** = Neutral White (4000K) 90 CRI	**FL** = Flat Lens **DL** = Drop Lens	**26** = 26W* **48** = 48W[14] **60** = 60W[14] **82** = 82W[15] **96** = 96W **102** = 102W **115** = 115W **Custom outputs available. Consult factory.** ***DLC not available for models in 26W**	**1** = Multi-Volt Auto Ranging 100V-300V **2** = 347~480V[2]	**BZ** = Bronze **BK** = Black **SLV** = Silver **WH** = White **SP** = Special[3]	**BTEC[4]** = Blue Tooth Enabled **RK[5]** = Refrigeration Kit **WOCPLT[6]** = Occupancy Sensor with Low Ambient Photocontrol and Time Off **WOCPHT[7]** = Occupancy Sensor withHigh Ambient Photocontrol and Time Off **WOCT[8]** = Occupancy Sensor with Time Off Operation **HAZ[9]** = Class I, Div. 2 Hazardous Location Certified, Petoleum Canopy Mount **NSF[10]** = Conforms to NSF Std 2 **SCE10[11]** = Side Conduit Entry with Power Cord **HOEB[12]** = LED Battery Pack, 90 min, 650 lumens **DLP** = Dimming Leads Pulled **IMSBTM[13]** = AC Powered Internal Network Wireless PIR & Daylight Harvesting Sensor ***(IMSBTM Lens Below, Ordered as a Separate Line Item)*** **IMSBTE[17]** = Title 24 Outdoor Lighting Control Sensor Motion Sensing, Daylight Photocontrol, Scheduling and Wireless Configuration **WHBL1** = 360° PIR lens, maximum coverage 80’ dia. from 40’ height **(IMSBTM Lens)**

DesignLights Consortium® Qualified. Please go to **www.designlights.org** for the current Qualified Products List. Further details about qualified models may be found under Family Models.

NOTES

1 = Pendants and pendant mount accessories sold separately. See Accessories for available options.
2 = 347~480V input not available for 26W model.
3 = Custom RAL color matching is available. Contact your sales representative for additional info.
4 = Bluetooth enabled control via the Casambi App on IOS or Android phone.
5 = Refrigeration Kit provides a non-conductive composite stem for mounting in an artificially refrigerated environment.
6 = Occupancy Sensor with Low Ambient Photocontrol and Time Off Operation will allow fixture to remain off when light levels exceed 12 FC (130 Lux) regardless of motion detected. WOC option provided with lens designed for 20’ mounting height.
7 = Occupancy Sensor with High Ambient Photocontrol and Time Off Operation will allow fixture to remain off when light levels exceed 55 FC (600 Lux) regardless of motion detected. WOC option provided with lens designed for 20’ mounting height.
8 = Occupancy Sensor with Time Off Operation will allow fixture to switch to full output when motion is detected regardless of existing light levels. The sensor will switch the fixture off when no motion has been detected after 5 minutes. WOC option provided with lens designed for 20’ mounting height.
9 = Hazardous Location Certification not available with the RK, NSF or any of the Occupancy Sensor options. HAZ not available with P-Pendant mount version. For international Zone System the classification is Class I Zone 2.
10 = Not available with HAZ or OCC sensor options
11 = Surface mount only. Not for through-wiring. Provided with a ¾”-14 NPS threaded entry and 10’ of 16/3 600V STW power cord (3/4” conduit or Seal-Tite fitting provided by others).
12 = HOEB option is not available with HAZ, WOCPLT, WOCPHT, or WOCT options.
13 = WHBL1 Lens must be ordered along with this sensor.
*** = DLC not available for models in 26W.**
14 = DLC for 48W and 60W is only available in 5000K: C (Cool White) with FL (Flat Lens) and Multi-Volt (120V-277V).
15 = DLC for 82W is available in 4000K: N-90 (Neutral White: 90 CRI) only.
16 = Kit is for conversion from a S mount to a P mount. Not for use with S-Surface mounts which include RK, or HAZ options.

17 = IMSBTE provides advanced outdoor lighting control functionality for projects requiring compliance with **California Title 24** Part 6 Section 130.2 when used with compatible 0-10V dimmable drivers.

Features include:
- Occupancy based bi-level dimming
- Automatic daylight shutoff
- Programmable scheduling
- Wireless field configuration
- Fixture grouping capability

CALIFORNIA TITLE 24 OPTION

Final project compliance is dependent upon fixture layout, wattage distribution, commissioning, and approval by the Authority Having Jurisdiction (AHJ).

ACCESSORIES (Order as separate line items)

THBSCxx	Safety Chain Kit (for pendant mounting, “xx” must specify length)
100265xx	Stem 3/4-14 NPS Steel (replace “xx” with 6”, 12”, 18”, 24”, 30”, or 36”)
132234WHPKG	24” X 24” Beauty Plate
105615KITKWH[16]	Kit w/Pendant Mount & J-Box WH finish

All dimensions and specifications are subject to change without notice.

REV: 20260821-20

LUMINAIRE CHARACTERISTICS

80CRI

(N) 4000K & (C) 5000K - 80 CRI

Wattage	Lumens		L70 @ 25°C	Amperage Draw						
	FLAT LENS	DROP LENS		120V	208V	240V	277V	348V	480V	
26W	4,716	4,498	>50K	0.22	0.13	0.11	0.09	0.07	0.05	
48W	8,544	8,160	>50K	0.40	0.23	0.20	0.17	0.14	0.10	5K only
60W	10,500	10,020	>50K	0.50	0.29	0.25	0.22	0.17	0.13	5K only
82W	14,184	13,448	>50K	0.69	0.39	0.34	0.30	0.24	0.17	
96W	16,410	15,456	>50K	0.80	0.46	0.40	0.35	0.28	0.20	4K & 5K
102W	17,230	16,215	>50K	0.85	0.49	0.43	0.37	0.29	0.21	
115W	19,246	18,055	>50K	0.96	0.55	0.48	0.42	0.33	0.24	4K & 5K

80CRI

(W) 3000K - 80 CRI

Wattage	Lumens		L70 @ 25°C	Amperage Draw					
	FLAT LENS	DROP LENS		120V	208V	240V	277V	348V	480V
26W	4,550	4,342	>50K	0.22	0.13	0.11	0.09	0.07	0.05
48W	8,256	7,872	>50K	0.40	0.23	0.20	0.17	0.14	0.10
60W	10,140	9,660	>50K	0.50	0.29	0.25	0.22	0.17	0.13
82W	13,694	12,956	>50K	0.69	0.39	0.34	0.30	0.24	0.17
96W	15,840	14,880	>50K	0.80	0.46	0.40	0.35	0.28	0.20
102W	16,626	15,606	>50K	0.85	0.49	0.43	0.37	0.29	0.21
115W	18,515	17,365	>50K	0.96	0.55	0.48	0.42	0.33	0.24

90CRI

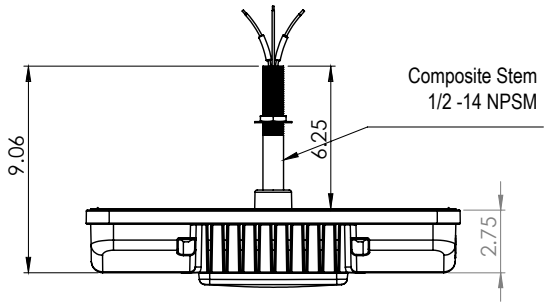
(N90) 4000K - 90 CRI

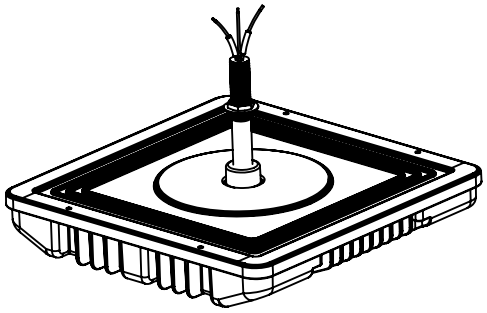
Wattage	Lumens		L70 @ 25°C	Amperage Draw					
	FLAT LENS	DROP LENS		120V	208V	240V	277V	348V	480V
26W	3,901	3,692	>50K	0.22	0.13	0.11	0.09	0.07	0.05
48W	7,056	6,672	>50K	0.40	0.23	0.20	0.17	0.14	0.10
60W	8,640	8,160	>50K	0.50	0.29	0.25	0.22	0.17	0.13
82W	11,562	10,906	>50K	0.69	0.39	0.34	0.30	0.24	0.17
96W	13,248	12,480	>50K	0.80	0.46	0.40	0.35	0.28	0.20
102W	13,872	13,056	>50K	0.85	0.49	0.43	0.37	0.29	0.21
115W	15,410	14,490	>50K	0.96	0.55	0.48	0.42	0.33	0.24

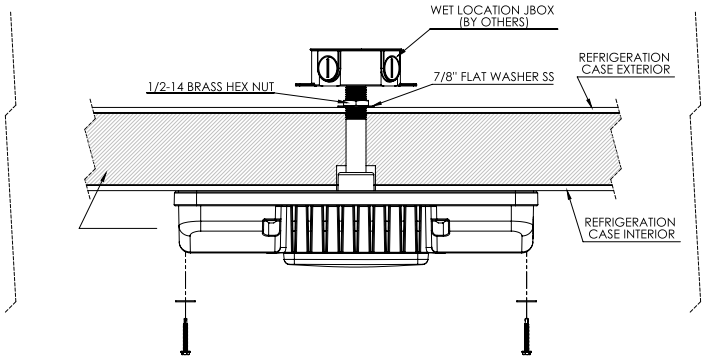
AVAILABLE FIXTURE MOUNTS

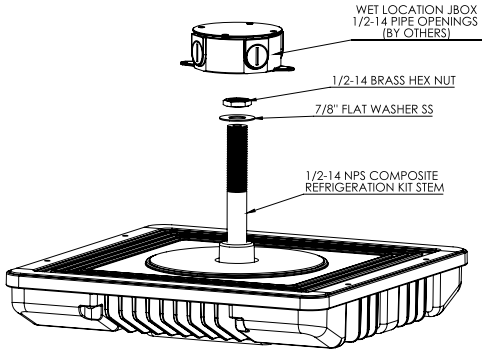
(CSL-S-RK) REFRIGERATION KIT MOUNT

(RK OPTION)



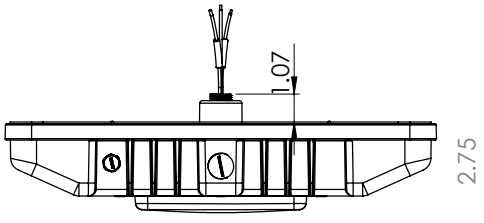


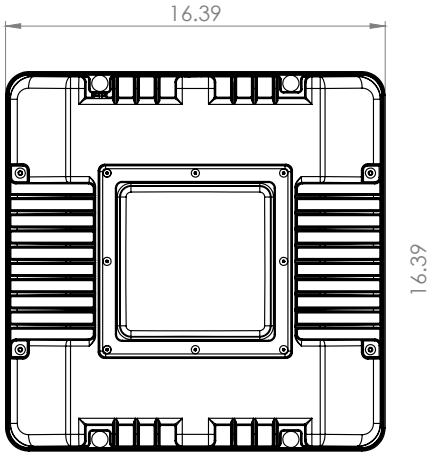




(CSL-S) SURFACE MOUNT

(STANDARD OPTION)





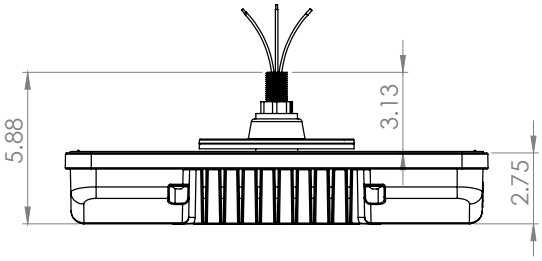
(STD-S Requires 2-1/8" Deep J-Box in Ceiling Surface)

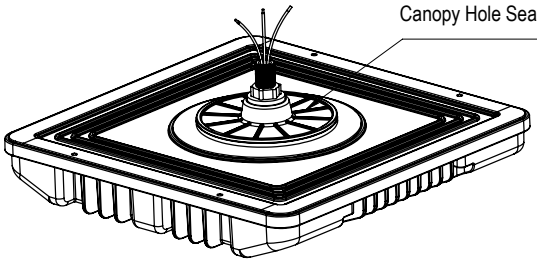
AVAILABLE FIXTURE MOUNTS

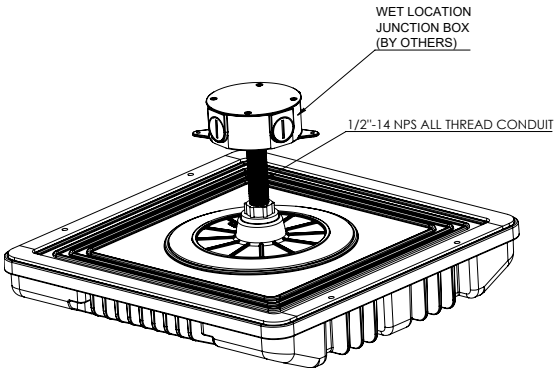
Dimensions shown are for fixture bodies only.

(CSL-S-HAZ) SURFACE MOUNT - PETROLEUM CANOPY HAZARDOUS LOCATION

(HAZ OPTION)

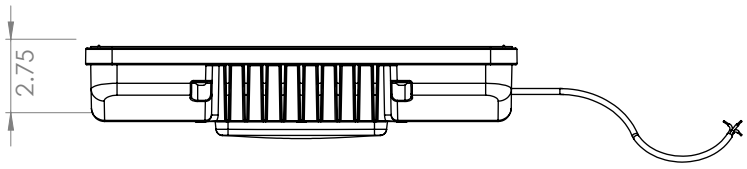


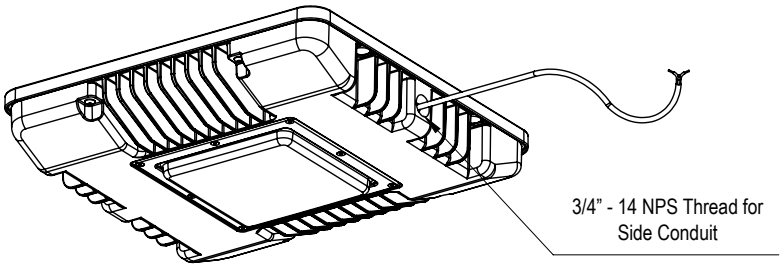


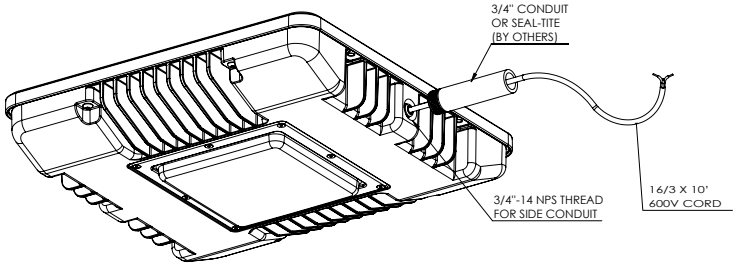


(CSL-S-SCE10) SURFACE MOUNT WITH SIDE CONDUIT ENTRY

(SCE10 OPTION)





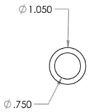


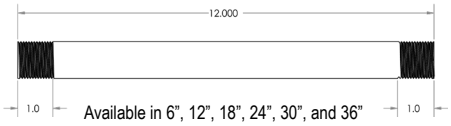
AVAILABLE FIXTURE MOUNTS

Dimensions shown are for fixture bodies only.

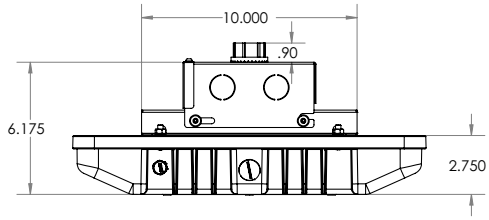
(CSL-P) PENDANT MOUNT

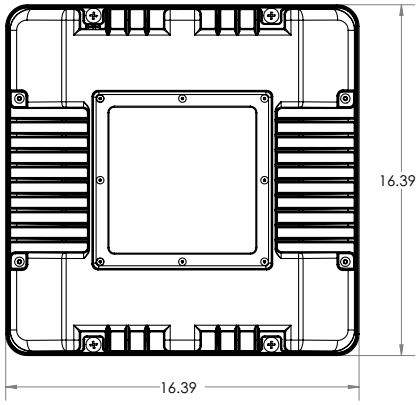
(P-MOUNT OPTION)

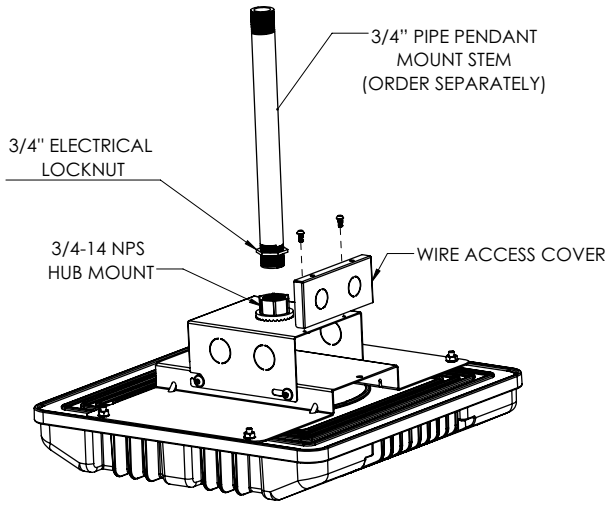




Pendant Mount provided with factory installed bracket and hanger type J-Box and Hub for 3/4" pipe stems.



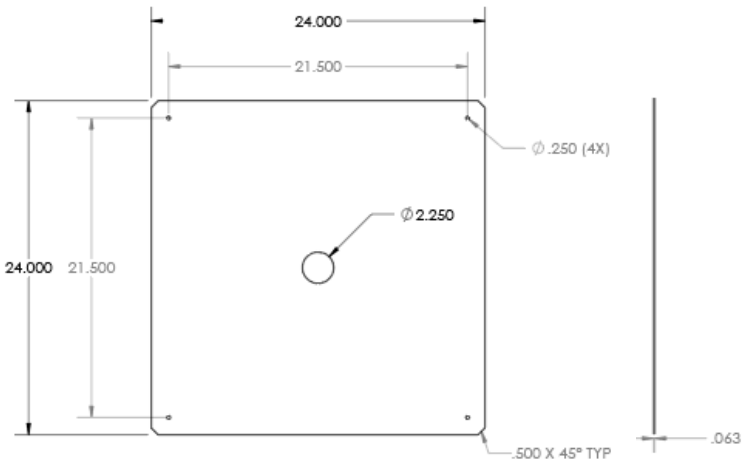




ACCESSORY OPTIONS

Dimensions shown are for fixture bodies only.

132234WHPKG
24" X 24" Beauty Plate

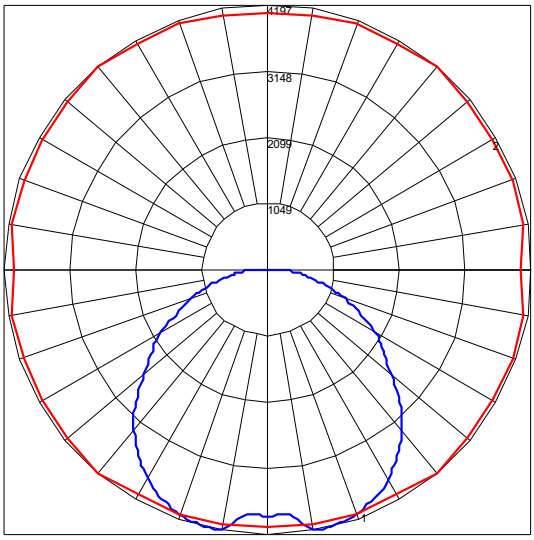


PHOTOMETRIC CHARACTERISTICS

CHARACTERISTICS

CIE Type: Direct
High Lumen Output
Color Temperature: 4,000 K CRI: 90
Luminaire Lumens: 10683
Total Luminaire Watts: 82
Ballast Factor: 1.00

POLAR GRAPH

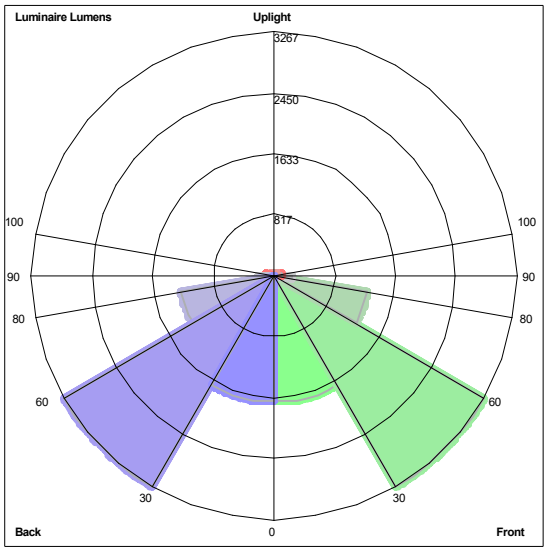


Maximum Candela = 4197.178 Located At Horizontal Angle = 50, Vertical Angle = 13
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (13) (Through Max. Cd.)

IES INDOOR REPORT
PHOTOMETRIC FILE
NAME: CSL S N90 DL 1
POLAR GRAPH

96W LED Canopy / Soffit
Color Temperature: 4,000 K
CRI: 90

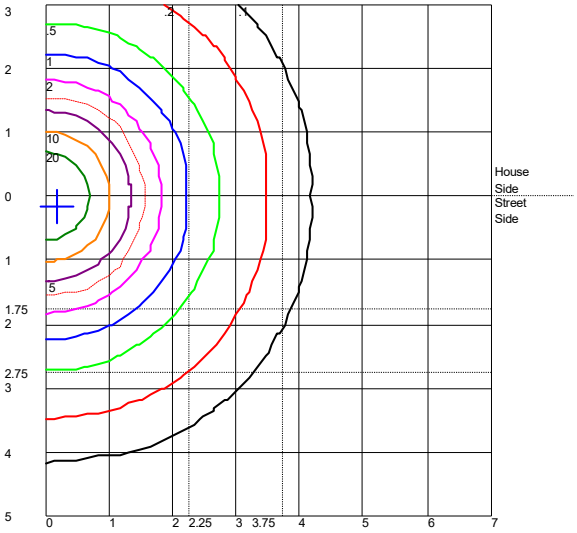
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1694.1, Medium= 3267.0, High=1267.5, Very High=226.0
Back: Low=1694.1, Medium= 3267.0, High=1267.5, Very High=226.0
Uplight: Low=107.7, High=37.7

IES ROAD REPORT
PHOTOMETRIC FILENAME : CSL~XN90DL96.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

PROUDLY BUILT BY AMERICANS For Americans IN THE USA
Techlight supports American families making quality products everyday

TECHLIGHT
INNOVATION IN ILLUMINATION

2009 Mckenzie Drive Suite 110 | Carrollton, TX 75006 | PH: 800.225.0727 www.techlight.com

All dimensions and specifications are subject to change without notice.

Integral Motion Sensor Blue Tooth Module (IMSBTM)

APPLICATION — The IMSBTM is an AC-powered, Integral Motion Sensor Blue Tooth Module, that is highly versatile for various indoor and outdoor lighting fixtures. It provides **360° coverage**, making it optimal for open spaces and aisleways. This sensor is particularly suitable for environments such as parking lots, fuel stations, walkways, and storage facilities. The WHBL1 lens is crafted for fixtures at mounting heights ranging from **20 to 40 feet**, ensuring a coverage span of up to **80 feet in diameter** at the maximum height of **40 feet**. These lenses are designed with multiple cells and tiers, creating a dense pattern of coverage.

- Analog Sensor Built-in
- Replaceable lens options
- 120-277V Line Voltage input
- Daylight harvesting available

OPERATION — Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

ADDITIONAL FEATURES

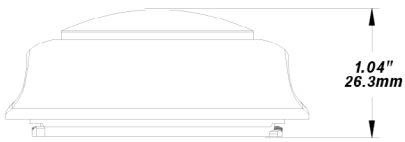
- **Wireless Control System:** Bluetooth® Low Energy Mesh 4.2 & 5.0 protocols. Enables individual or group control of luminaires.
- **Mobile App Operation:** Intuitive interface for easy management.
- **Flexible Commissioning:** Components commissioned via the Mobile App. No need for a gateway during commissioning.
- **Sensor Integration:** Works seamlessly with various sensors. Enhances energy efficiency and responsive lighting.
- **Mesh Network Range:** Wireless communication up to 100 feet or more between devices. Ideal for diverse spatial configurations.
- **Internet Independence:** Commissioning and operation without internet access. Ensures functionality in various environments.
- **Security Measures:** Data encryption for mesh network security. Device access restricted without encrypted QR codes.
- **UL 1376 Verification:** LiteTrace, the manufacturer, has UL 1376 verification. Ensures adherence to stringent security standards.
- **In-House R&D Capabilities:** Full-stack, in-house R&D for networked sensors and controllers. Reflects a high level of control and innovation.
- **Industry Recognition:** One of the first systems listed to DLC's Networked Lighting Controls (NLC5). Compliance with industry standards and specifications.

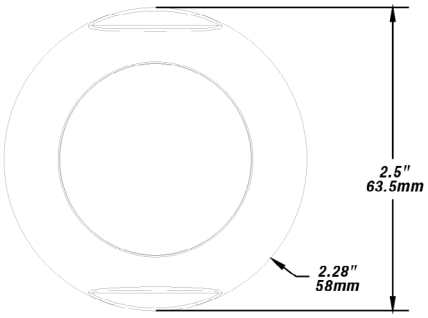
Download on the App Store

GET IT ON Google Play

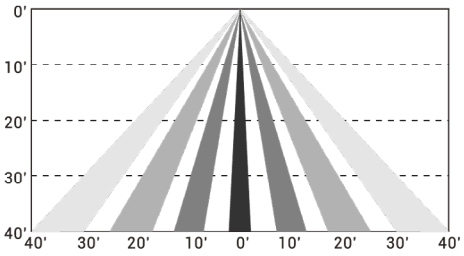
SENSOR LENS FIELD OF VIEW AND DIMENSIONS

WHBL1

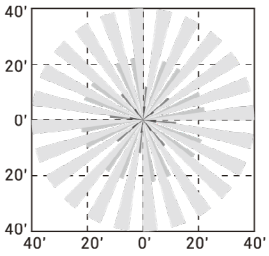




Coverage Side View

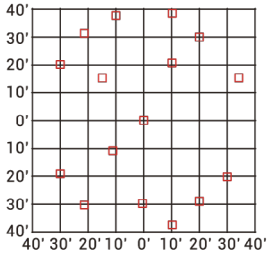


Coverage Top View



Height 40ft

Detecting Spots For Ref



Network Lighting Control App Instruction Manual
located on the Techlight Website -> Resources Page.
Location shown below, ***or*** scan the QR code to the right.
https://techlight.com/pdf/IMSBTM%20Manual.pdf

Continuous 0-10V PIR Dimming Photo/Motion Sensor with Bluetooth (IMSBTE)

APPLICATION — The IMSBTE sensors provide continuous dimming intensity control based on motion and/or daylight contribution. They control 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an FSP-Lx Lens, are rated for wet and cold locations. All control parameters are adjustable via the iOS or Android Sensor Configuration App capable of storing and transmitting unlimited sensor profiles. The IMSBTE complies with mandatory outdoor lighting controls under California Title 24, Part 6 (section 130.2)

- Bi-Level Motion Sensing
- Automatic Day Shutoff
- Automatic Scheduling
- Fixture Grouping

OPERATION — Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting motion and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On/Off and dim based on the ambient light level, so that lighting remains on overnight even without motion detection, for increased security.

ADDITIONAL FEATURES

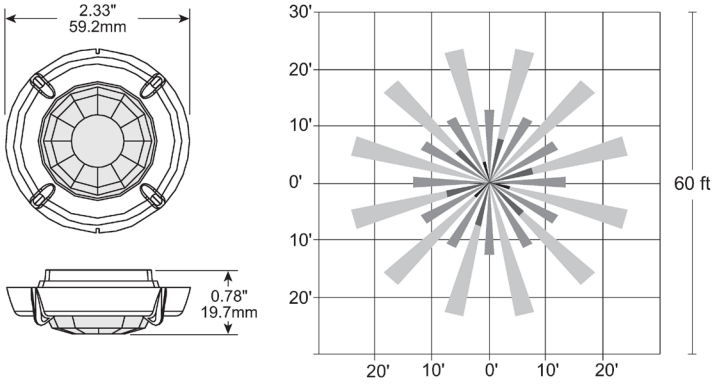
- Provides line voltage On/Off switching
- Works with 0-10V dimming ballasts or LED drivers
- Continuous dimming provides appropriate light levels based on ambient light conditions
- High and low modes fully adjustable from 0 to 10V
- Time delay from 5 to 30 minutes
- Optional daylighting setpoints feature automatic calibration, or permit manual adjustment
- Optional cut off delay
- Adjustable ramp up and fade down times
- Polycarbonate construction; flame retardant, UV resistant, impact resistant, recyclable
- Optional shroud with integrated lens to block high-angle light
- Smartphone or tablet application stores an unlimited number of sensor profiles for quick setup and adjustment of multiple sensors
- UL244A and UL508; IP66 rated (when fully assembled and installed in an IP66-rated fixture) for use in wet locations
- This product meets the materials restrictions of RoHS

Download on the App Store

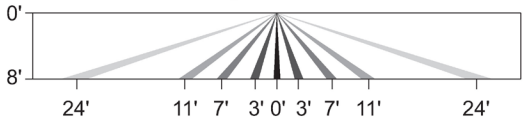
GET IT ON Google Play

SENSOR LENS FIELD OF VIEW AND DIMENSIONS

Coverage Top View @ 12ft.



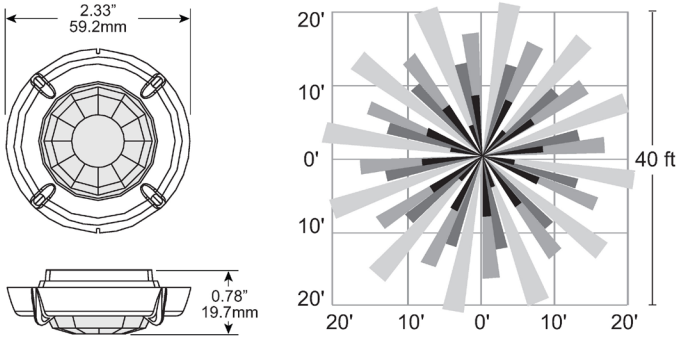
Coverage Side View



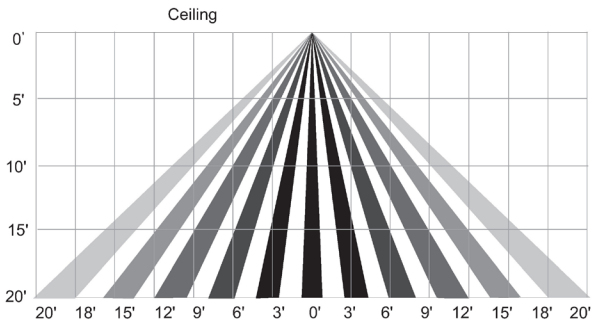
TLWSFSP-L2: 360° Coverage

The TLWSFSP-L2 is designed for mounting at heights between 8' to 12'. It provides a 48' diameter coverage area when mounted at a height of 8', or a 72' diameter coverage area at 12'.

Coverage Top View @ 20 ft.



Coverage Side View



TLWSFSP-L3: 360° Coverage

The TLWSFSP-L3 has a high density lens that covers a 40' diameter area at a height of 20'.